

ABSTRACT OF THE DISCLOSURE

A method of manufacturing IC devices from semiconductor wafers includes providing the wafers and fabricating IC's on the wafers. At probe, a unique fuse ID is stored in each IC, and an electronic wafer map is electronically stored for each wafer indicating the locations of good and bad IC's on the wafer and the fuse ID's of the IC's on the wafer. Each IC is then separated from its wafer to form an IC die, and the IC dice are assembled into IC devices. At the opens/shorts test at the end of assembly, the fuse ID of each IC in each device is automatically retrieved so the wafer map of the IC device may be accessed and evaluated to identify any IC devices containing bad IC's that have accidentally been assembled into IC devices. Any "bad" IC devices are discarded while remaining IC devices continue on to back-end testing.